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ABAREX - A NEUTRON SPHERICAL OPTICAL-STATISTICAL-MODEL CODE -

A USER'S MANUAL*

by

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ABSTRACT

The contemporary version of the neutron spherical optical-statistical-model code ABAREX is summarized with the objective of providing detailed operational guidance for the user. The physical concepts involved are very briefly outlined. The code is described in some detail and a number of explicit examples are given. With this document one should very quickly become fluent with the use of ABAREX. While the code has operated on a number of computing systems, this version is specifically tailored for the VAX/VMS work station and/or the IBM-compatible personal computer.

This code and this document have been sent to the NEA Data Bank and the Radiation Shielding Information Center (ORNL). Interested users should contact one of these centers. Any suggestions, errors and/or corrections should be communicated to A. B. Smith, Technology Development Division, Bldg. 207, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Illinois 60439, USA.

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